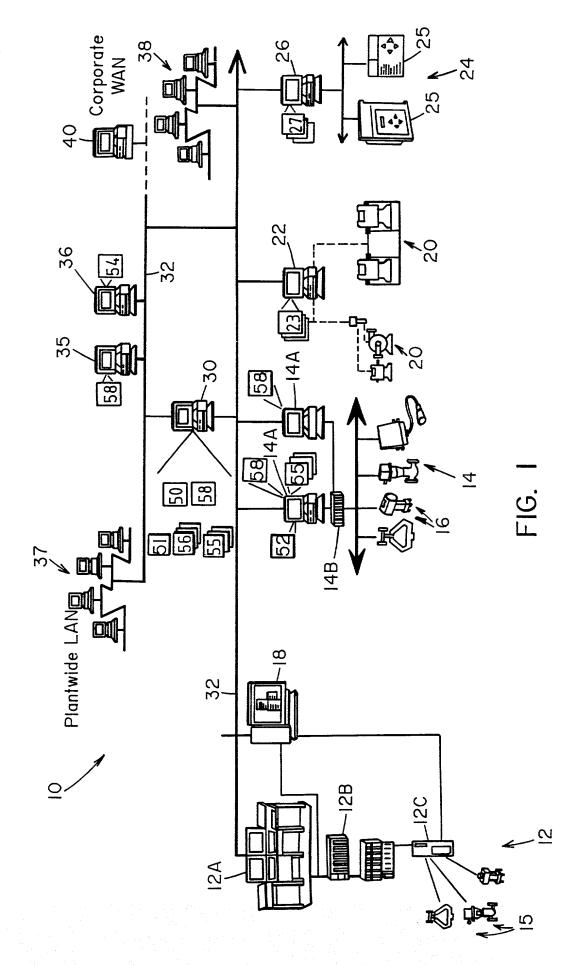
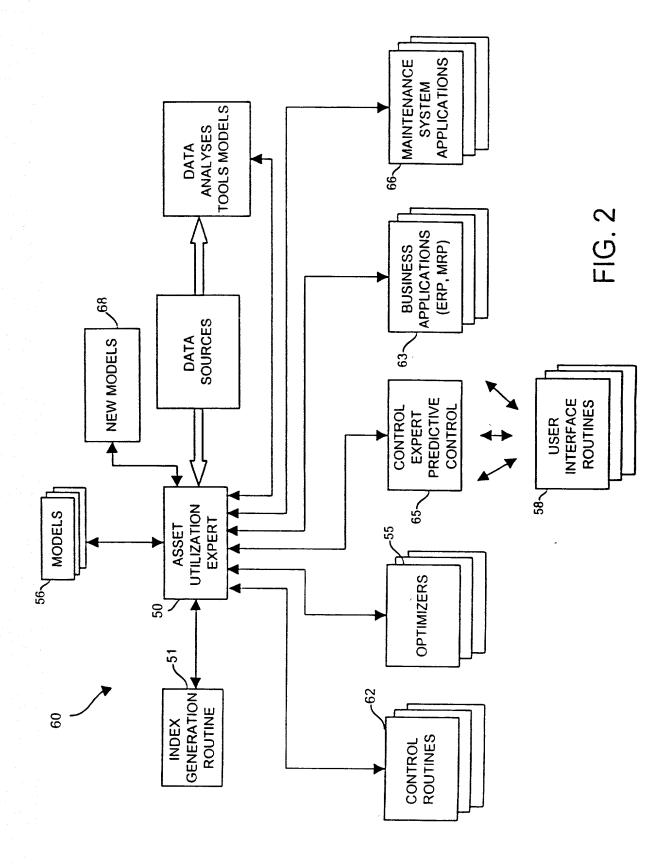
Inventor(s): Eryurek, et al.

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Inventor(s): Eryurek, et al. Figure No(s).: 3 and 4 Sheet No.: 3 of 29

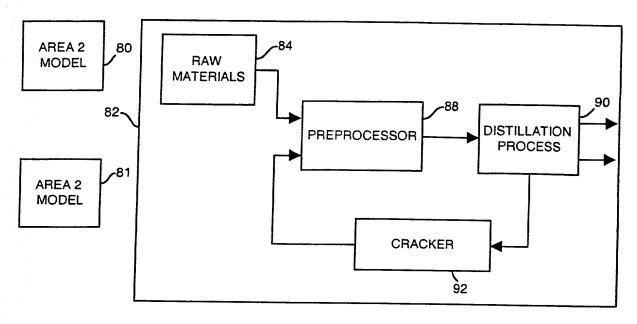


FIG. 3

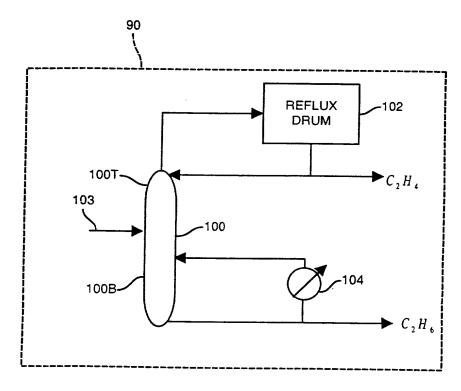


FIG. 4

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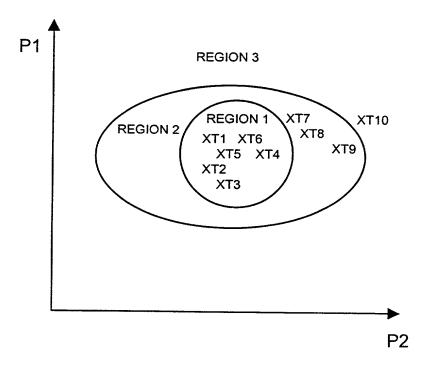


FIG. 5

Inventor(s): Eryurek, et al. Figure No(s).: 6 and 7 Sheet No.: 5 of 29

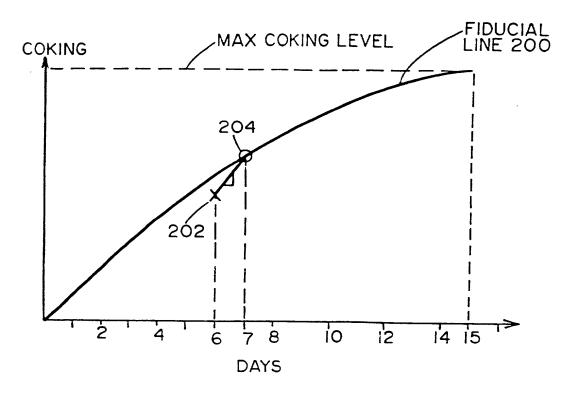


FIG. 6

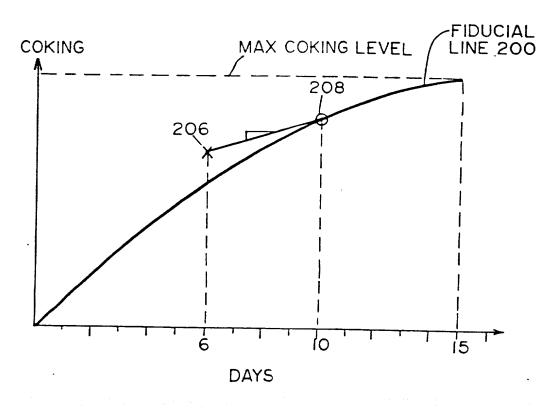
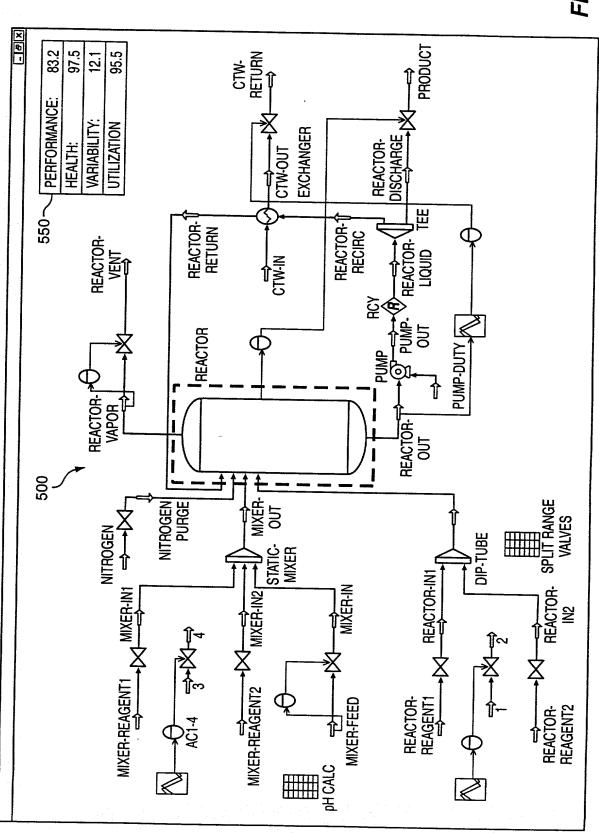


FIG. 7

FIG. 8



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	PI	VI	HI	J UI
Unit	×		x	х
Sub Unit	×		×	x
Loop		x	x	×
Device		x	x	

FIG. 9

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PERFORMANCE FOR FCCU: 83.2

	Loop Name	Index	Weight
575	FIC-101	88	3
	TIC-111	89	3
	LIC-111	88	3
	FIC-111 60		3
	FIC-112	80	1
	TCI-222	87	
	FIC-101	88	3
	TIC-111	89	3
	LIC-111	88	3
	FIC-111	60	3
	FIC-112	80	1
	TIC-222	87	1
	PIC-111	87	1
į			

FIG. 10

Inventor(s): Eryurek, et al. Figure No(s).: 11 Sheet No.: 9 of 29

FCCU Health: 97.5

Device Name	Index	Description	Weight
FV-111	100	Leaking	3
TI-111	98	Sticktion	3
<u>LI-111</u>	90	40	3
MC-101	95	Will burn up in 2 weeks	3
FV-111	96	0	1

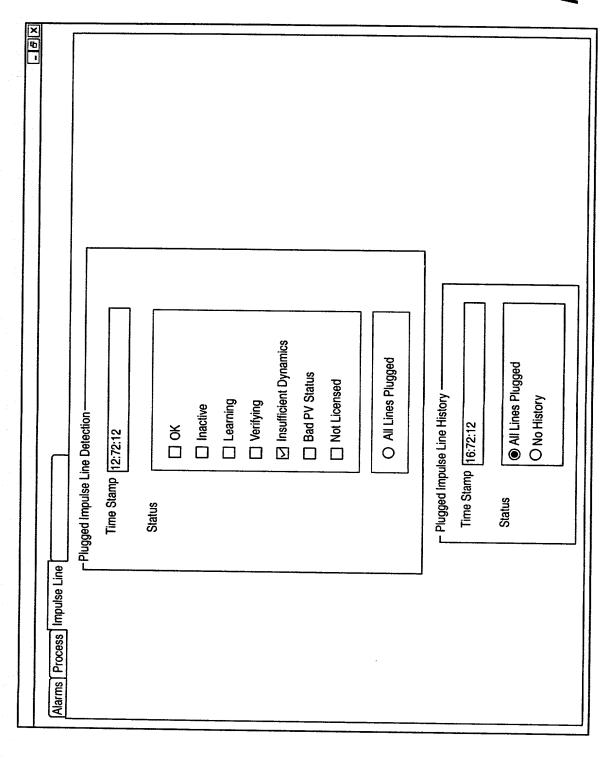
FIG. 11

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FCCU Variability: 12.1

Device Name	Index	Weight
FV-101	0	3
TI-111	2	3
LI-111	40	3
FV-111	0	3
FV-112	0	1
TI-222	2	1
FI-101	7	3
TI-111	6	3
LI-111	7	3
FI-111	7	3
FI-112	7	1
TI-222	7	1
Sub unit: Reboiler RB101	15	2

FIG. 12



Zoom Out Reference 82 Actuator Tim 65 Valve Travel (deg) Notes Add Overlay Analyzed 25 Data Points Graph View Full Screen Actuator Pressure (psi) Inputs

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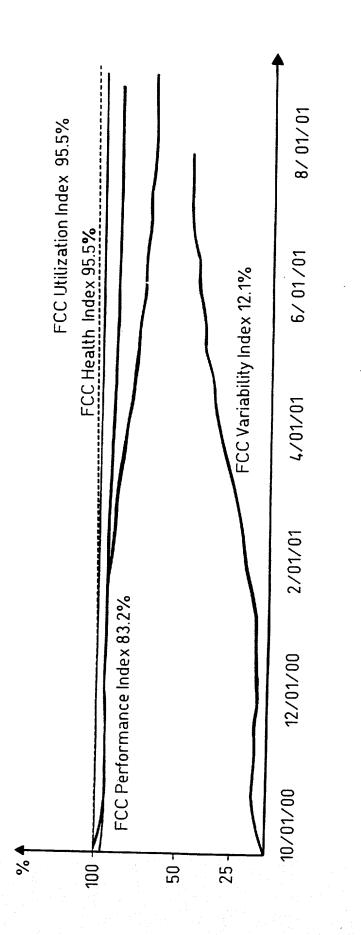
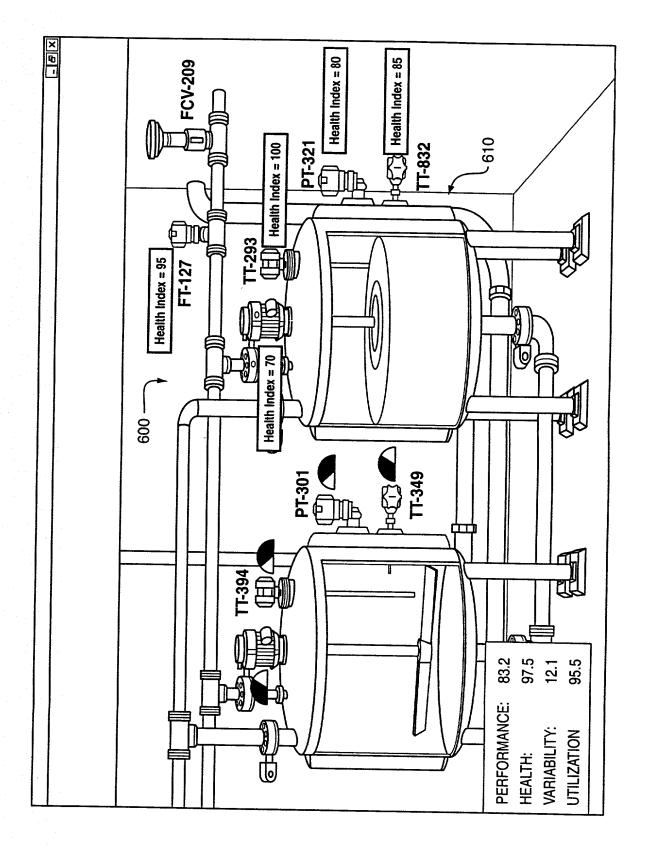


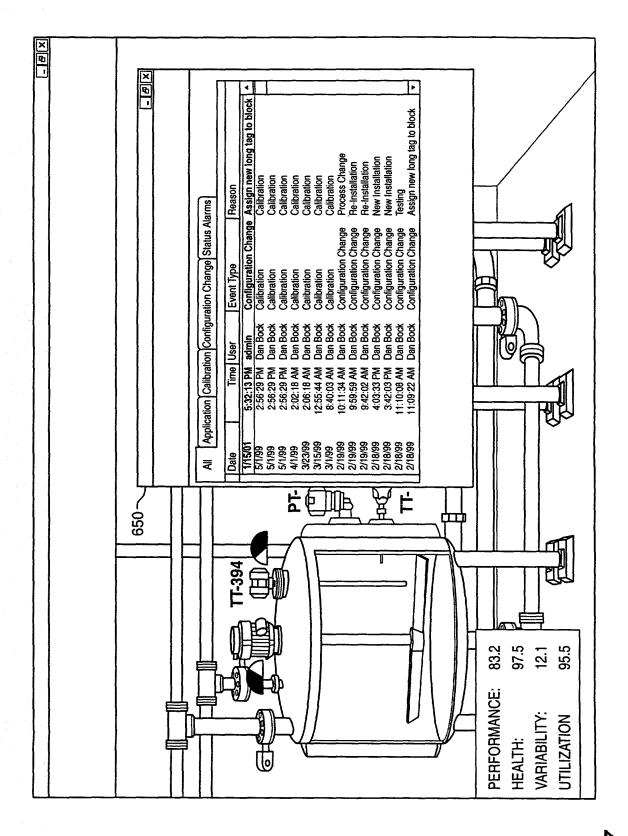
FIG. 15

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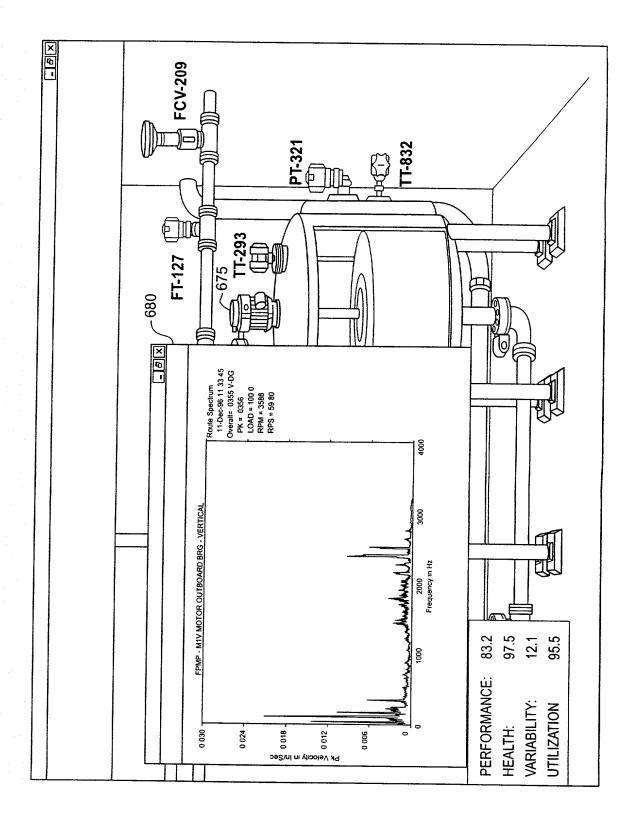


Inventor(s): Eryurek, et al.

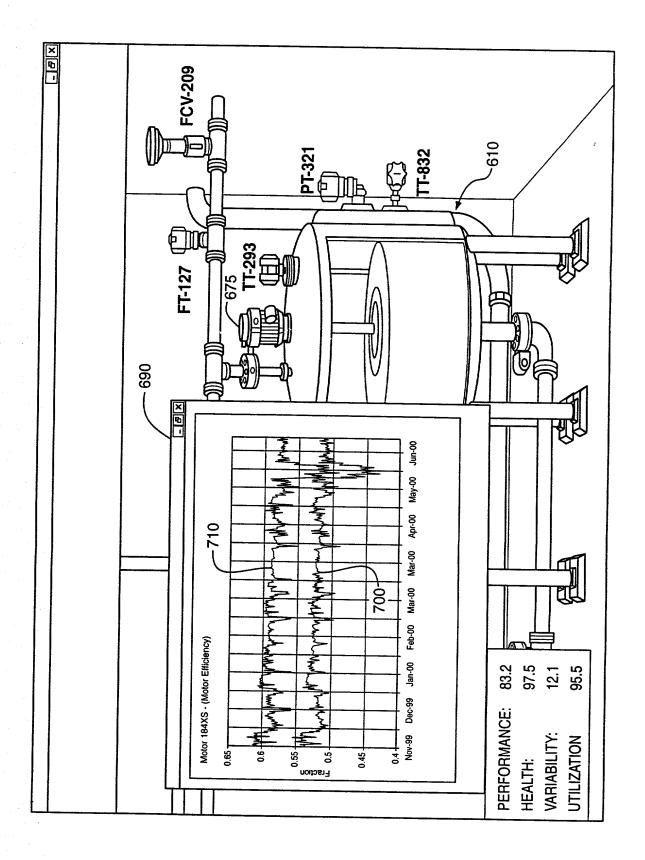
Figure No(s):: 17 Sheet No.: 15 of 29



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Inventor(s): Eryurek, et al. Figure No(s).: 20

Figure No(s).: 20 Sheet No.: 18 of 29

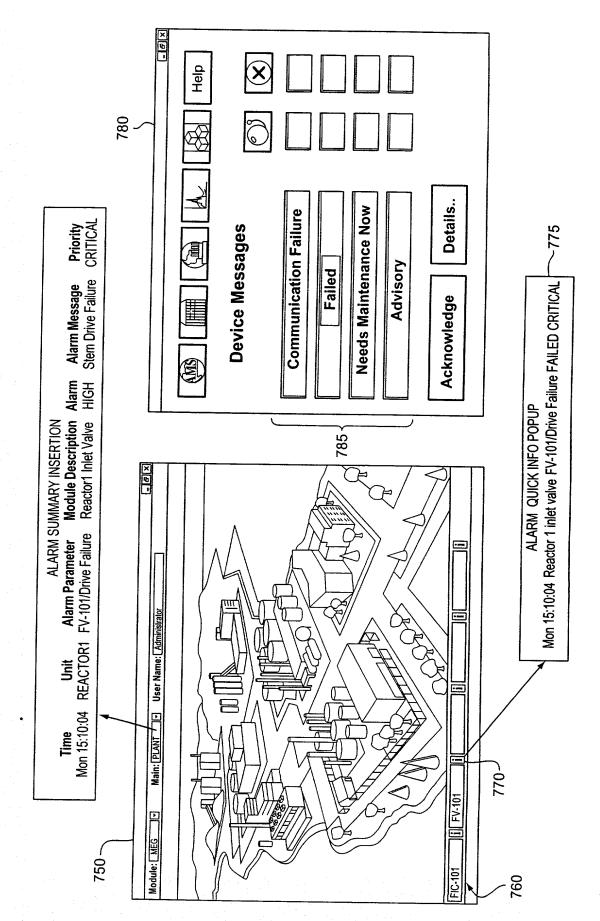
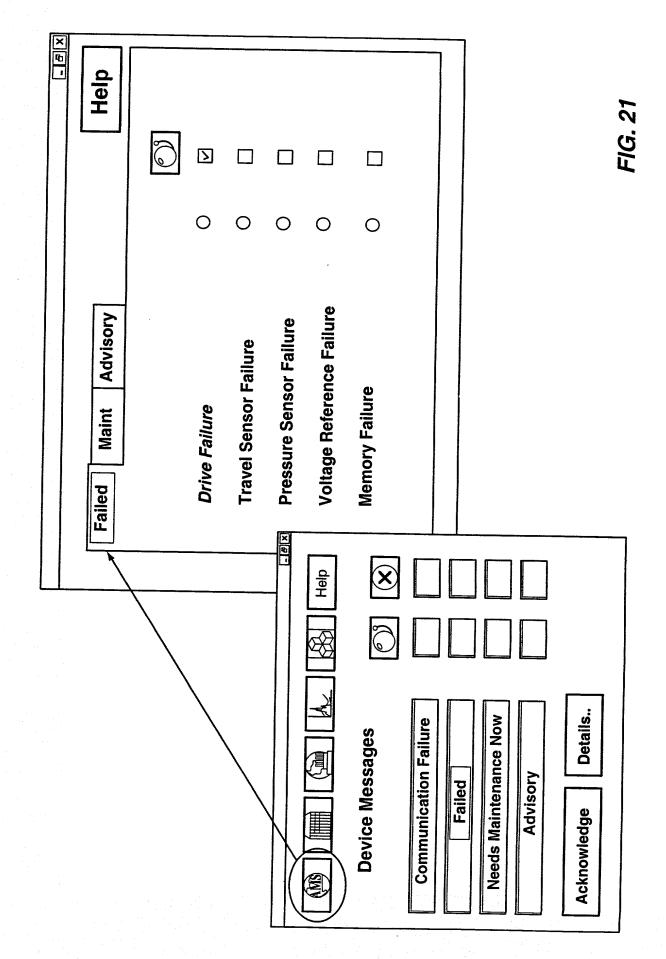


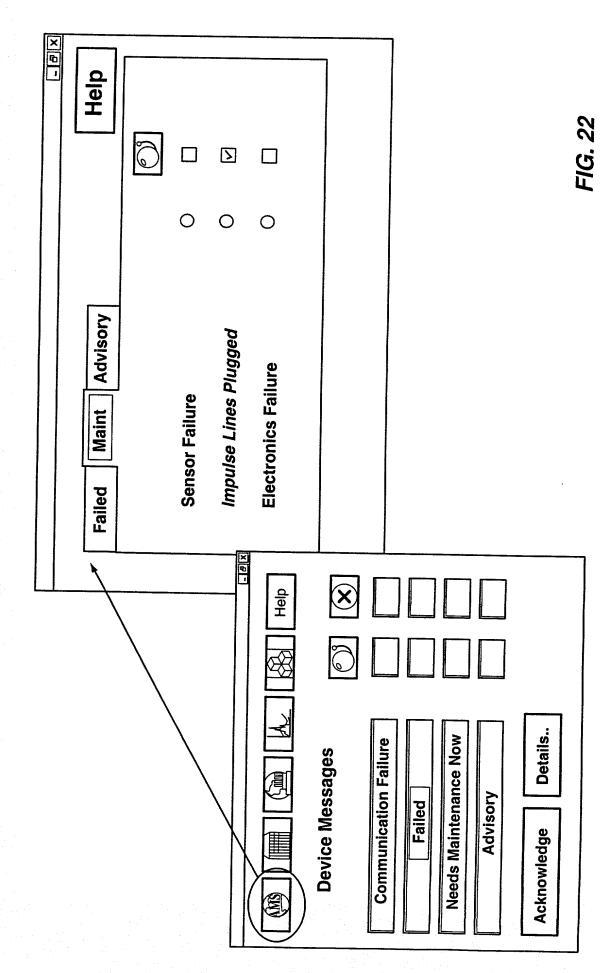
FIG. 20

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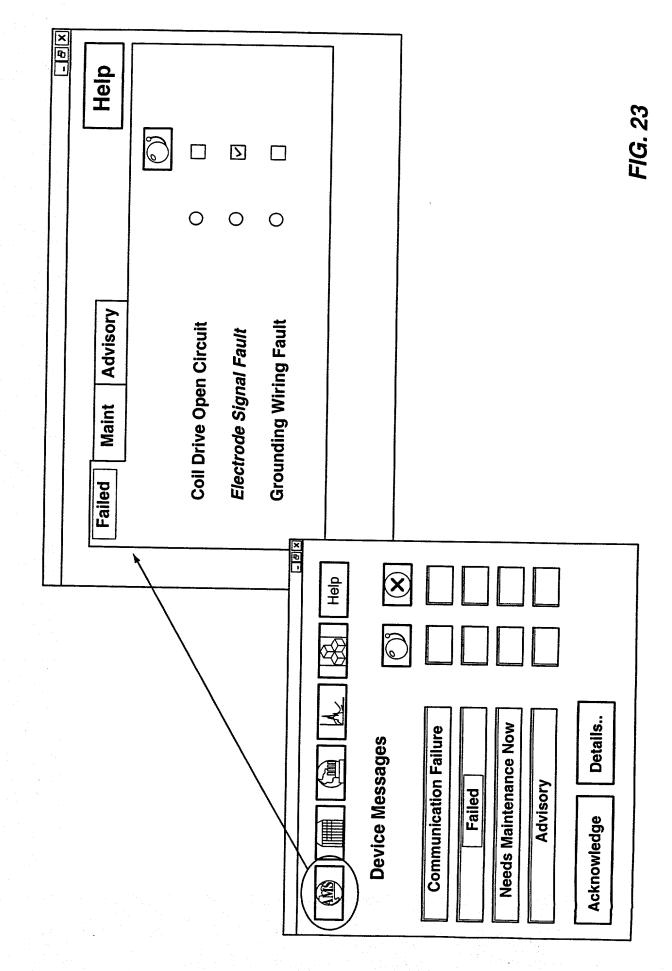


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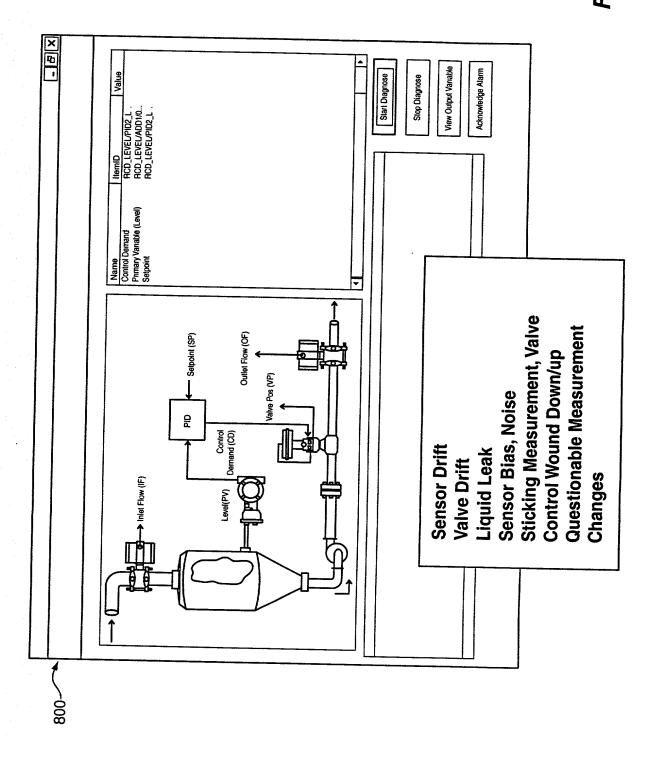
Inventor(s): Eryurek, et al. Figure No(s).: 23 Sheet No.: 21 of 29



Inventor(s): Eryurek, et al.

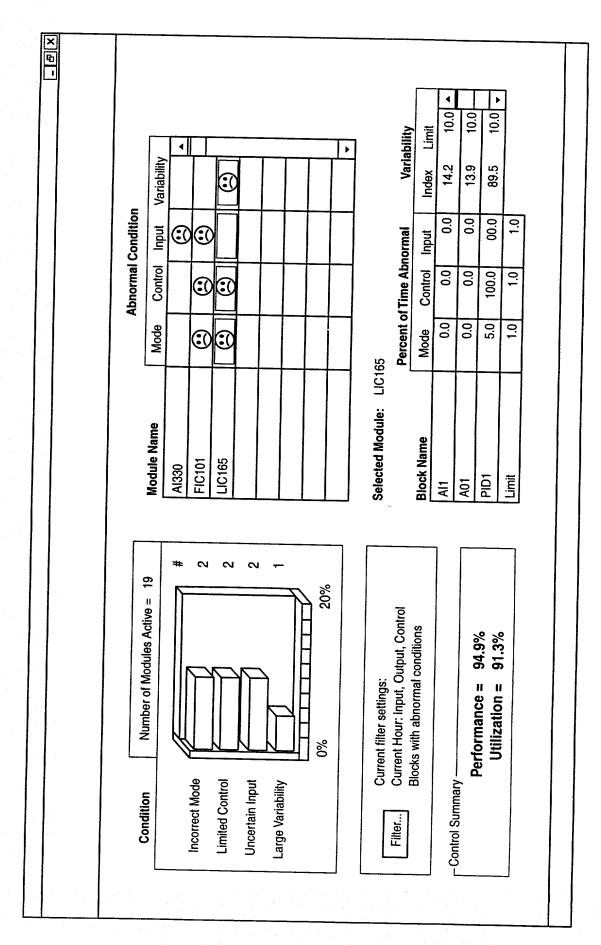
Figure No(s):: 24 Sheet No.: 22 of 29

WARNING! The electrode compartment may contain line pressure. Reomoving dial on the 8714 should be set at 9.1 m/s (30 ft/sec). The transmitter should The flow signal has been compromised. The process variable is likely reading 1. Remove any moisture or contamination in the flowtube terminal block or, electrode (18 or 19) is greater than 2 kohms and rises. For more detailed electrode, grounding rings with grounding straps, or lining protector with To turn off electrode signal fault detection, go to the diagnostic screen in the the flowtube. Corresponding terminal block numbers in the flowtube and Properly connect the wiring between the flowtube and the transmitter on reading between coil ground (ground symbol) and coil (1 or 2) is infinity Verify transmitter electronics with Model 8714 reference standard. The Confirm the resistance reading between electrode ground (17) and an Verify flowtube is electrically connected to the process with grounding Perform flowtube electrical resistance tests. Confirm the resistance the cover before depressurizing may result in death or serious injury. be set up with the nominal flowtube calibration number (1000015010000000) and 5 Hz coil drive frequency. if applicable, the sealed electrode compartments. information, consult the flowtube product manual. transmitter must be connected. Electrode Signal Fault Detected transducer block properties. grounding straps. less than expected. તાં က 4 ĸ, Help Σ O 0 0 Maint Advisory Coil Drive Open Circuit **Grounding Wiring Fault** Electrode Signal Fault Failed



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Figure No(s).: 27 Sheet No.: 25 of 29

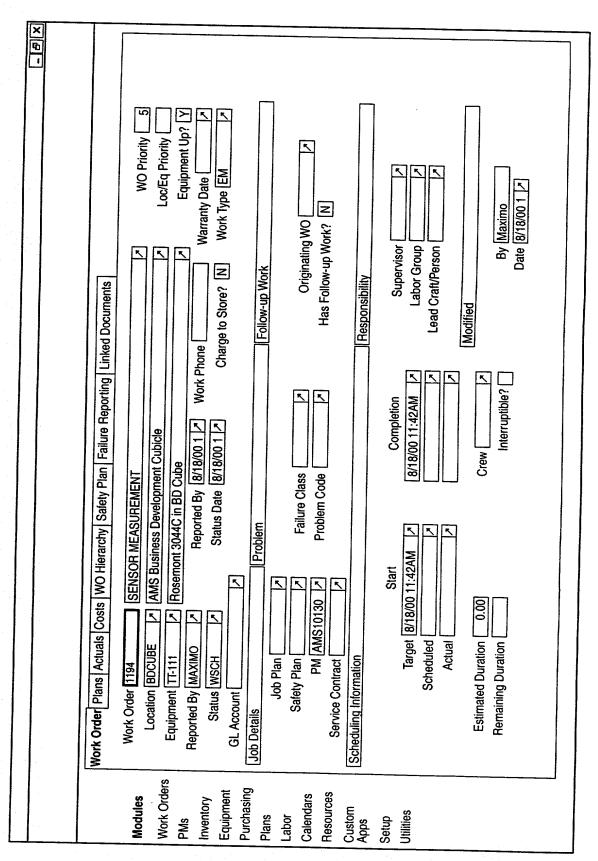


FIG. 27

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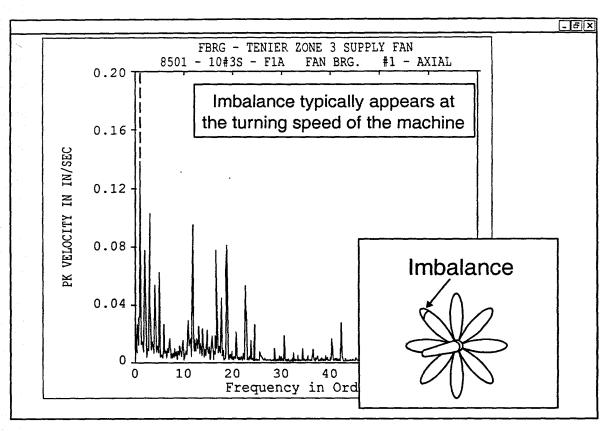


FIG. 28

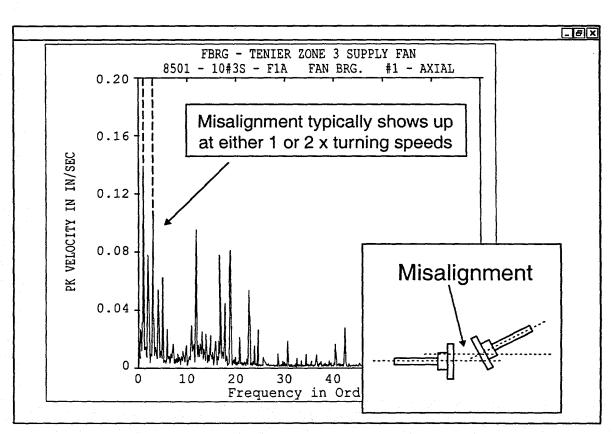


FIG. 29

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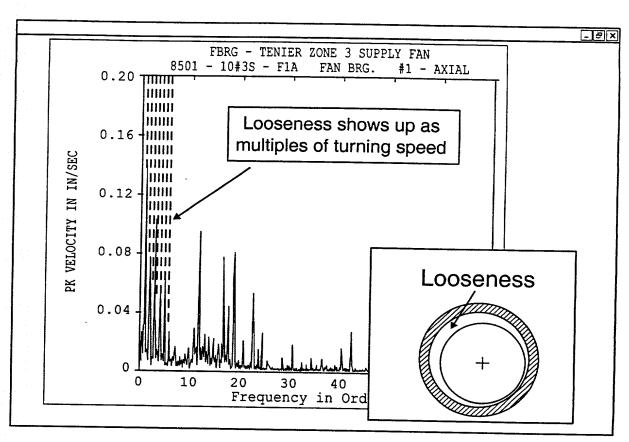


FIG. 30

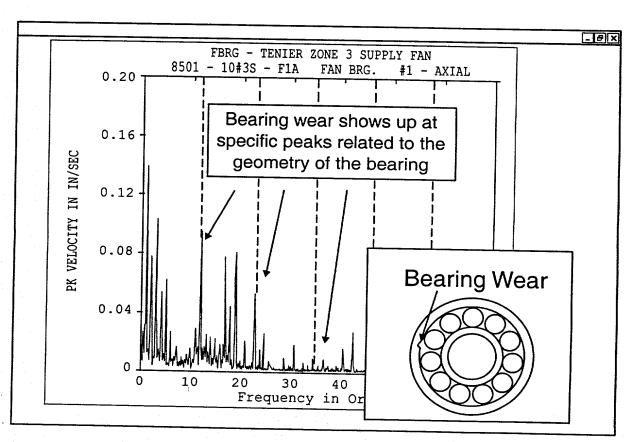
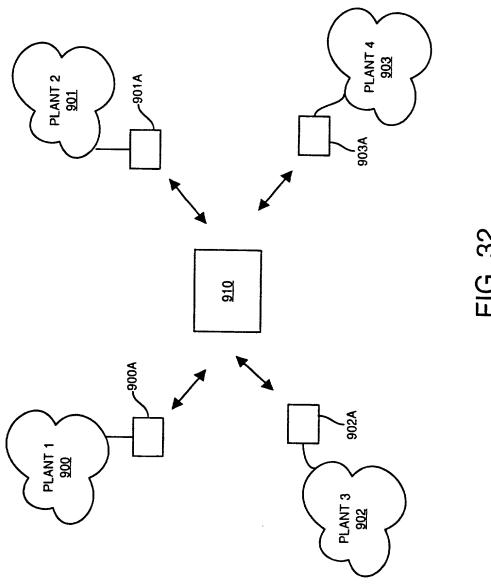


FIG. 31

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Inventor(s): Eryurek, et al. Figure No(s).: 33 Sheet No.: 29 of 29

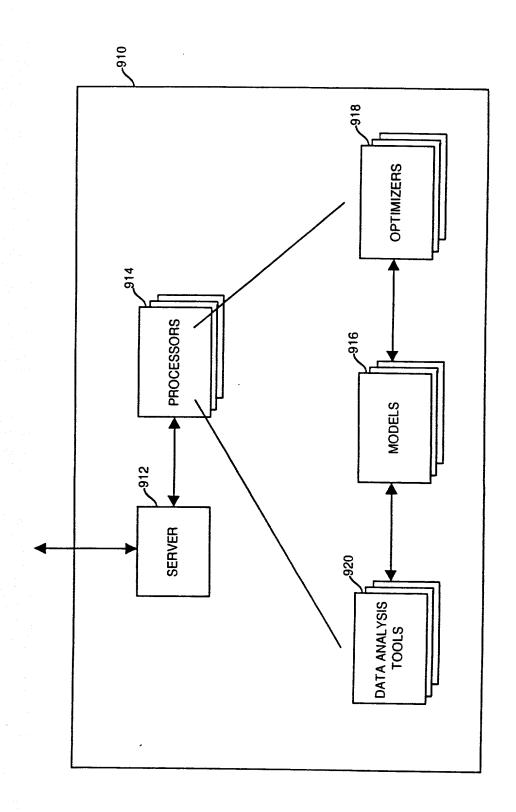


FIG. 33